l 1827 Jecale Cornutum Dant. Bedinger

Paped March 1827 W. E. M.

Ess ay on the Properties

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of the

Leade Coronitum;

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Eigit.

By Saniet Bearinger

1826.

Jecale Communition.

It is supposed by some, that this sessified, and they contraction of a disease called classes, which has long been breach to affect all the "gramining plant", as well as, most of the grange. By is most lind the to this agree their, front and is faid, that, it is onere abundant along the moregin of fields, than in this inderior, which is, me sently way it the land thing more sich. New grammy, the past time they are callinater, per course it so great a tim dance, particularly when the season has been very warm, and showers if some than the season has been very warm, and showers if some have been for greater.

Entertain July of Middletona Commetine, in his ornelline paper in this subject, patterhear si the first mean but of the 2 rd.



of Sellinand "Turnal of Teiners and atty hiwhere to be a penantich forger, like the siquest soits of bright, sound be and has dodown that it, To bootsom. Choose?

The French, from its recomblance to the spen of a cock, call it legt. In Ingland, as wall as in one own day, it is called, heared dye, spould age, the mediac beautiff, by mediac land, it is commented be white, by mediac land, it is commented beautiff, by mediac

then, it is accommended Locale Cornetime.

There are remaining enjecting, at the origin of this on to tance, must of them however, appear to be proposed by small lawar, which they have traced by small lawar, which they have traced in to a species of former to they have traced in to a species of former to they have traced in the a species of former to they have made of the grain which present it and the regarder which presents of the grand of the regarder which presents of the first which made a left, affects at the plants



of this discripting and of this, I am further concinera, from the face, that is is more a burnamit, when the grain is soon in particular setting thing, and the season has some such as mist face my the quick greath of the grain, and the presention of slight, of every description.

From the ry periments of the lette Fontama, there are faces to warrant the bolief, that it is presenced by a species of contagion. He planted a miniber of snight goons of rye, and on the top of each, head he placed second grains of the right. The result was a crop of This article, from which he inferred, that it had been produced by contagion. But, if I be allowed to de mo constru part of May last and first of June, I found secual bunches of oys, that were growing, a conside alle distance from my other grain, on a my, elevated sport of ground as soon as the



heady made their appearance, I placed on each of them, several grains of the Eight, and tot Them remain until the grain was porterly sipe, that there was no Eight produced. The grain riperiod as usual, was perfectly sound, our de thoused mit the least appearance of infection. I this the an perimene in another way. When the rye way in full bloom, I produced the Eright as finely as I could, and sprinkled it over each head of the age every morning, mitil, the Home had fallen of. The there was no crop of This acticle, the grain as before, was sound and perfect, when is ripened. Firm these experiments then, I was made led to the ocuclusion, that the Abbe Fortana, attituted to contagion, what situation, or perhaps season, oright have promen. Tistor observes, in a lotter to Fir George Baker, when speaking of this substance, That, there are his other diseases which after age and wheat, which have been conformed with each other,



and with their which produces the light the whom he demonstrates, the "richigo or milder," the other "willige, known, or Hight". The relige is character ages by a retiesh yellow provider, of a gluthown man their which asknow to the stalks and he are of the grain, and is very a known in low grown &. The stalks, and he are of the grain, and is very a known to he had no for one &.

The Secale Corner time is generally found, in the form of cloughter, excluse excressions founds the form of cloughter, excluse excressions of the oye. They are considerably longer, and languishin the perfect going, time from a line, to the line, in the line, in length, and from a line, to the line, in headth. They are of a blaich black colore extensibly, but of a yellowich white within, and when day, they are hander, and of a more compact when day, they are hander, and of a more compact structure, then the stath of sye is affected, but generally then are fore and, on by from sin, to therefore grains, in



in a head. It possesses little or no lasta and is said, that, bread made of the Eng T, does not sifer sie this respect, from that make, of the send upe. Its randy as the time of Galen it was known, that completed com, was poss mones to the human body. He semanted, that, degeners The grain, called black wheat, would produce tween, headach, deterine and going receous where; and it has long been supposed, that, the day gangoone which occurred so frequently in France, and other parts of mospe, was the effects of taking bread, made of vitates age. But the pist communication given to the world of This disease of eye, and of its permisions offerts upon the human system, was by Mr. Dodatt, sie a little published in the Tournal deg Tavany, in Mouch 1676. The fatts were observed a few years before, by the Physicians and Jungeous of to logore, in which district the disease had been very prevalent. The statements of Galon,

Mr. Dedait and other of the injuring effects of this article upon the homan heavy have more occurred from the formed, by the observations of Mr. Factor and Ingen of the "Hotel Dien" of treamy, where he had many opportunities of seeing the disease, in all the stage. He states, that, there who lived in per use tread, were affected with a say gaugeon, and seeman to that, the cy turnities they affected, became as "ay as tuch weed, and as emaceater as an Egyption him turning".

The symptoms of by Gangaene are immerchan differently accounted, by adjusting a day gangaene, and ellimately death, as the ordinary results of the disease. It commences with lastinate that and belity, but with little interruption of the functions in general. It segree of to per in the lover as hereing is from observed, accompanied a december of the sure of

the with a min amount to me will be that The second secon

priching, and of the ever ping of insects upon the shine: a slight degree of swelling, but without in Hammation ousness, sometimes accompanied by the most exerciating pain, and sense of huming heat; generally however there is no point, and little smeasings is fell in the part. These sym formy are soon succeeded by extreme coldnos, the shin of the fool and logs becomes shrivelles and of a dark here, as if dired in smoke, and afterwards black and destitute of feeling: in fact the limb dies, or is gangoenous, but in a seried state, which has been compared to that of a Minning. By degrees the dead part is so perated by the absorberds from the living, a requires am pertation. In this mutitates condition, deprived of one, sometimes of both but, more varily of the handy some sidiviaway have survibed for months, or some years. The detetering exects of the Engelled age, sung mor to be confined to the human body.

Most of the souters in this article, from Mr. bedan down to the present day, state, that when it is given to foody, lugs, a other animals of food, it produces the same effects, as in mon, and destroyes life. The more recent experiments of Mr. Tiessier and others go to prove the facts above stated. Tuesvier found, that by stuffing tuking and other ani. maly with this article, it produced a disease resembling the dry gangoene in the human System. But not with standing the many Statements which had been published, of the mischwood effects of this sottele to pour different animals, then still existed south of their corrcetricity, and the question some mit to have been da disfactority settled, matile & Charles 6. Byod of Mig inia took it sop in 1891, as the subject of his many was their. He repeated the experiments upon ducks, which Lissier and others had made, a from food of different descriptions, our with the same sestily, ever it

that si one case, there was a sort gangsone sistence of a dry, which stong that the wet, is well as the dry gangsone, may be produced, by the use of this substance.

At though this question is now settled bejoid a don't, you to satisfy myself, to witness the effects of this strange so to tomes and be the discase which is produces, in ale is stages, & procued, on the 15th of September last, a full grown duch, for the purpose of making the experients. I first commoned by miging the right with its food; that I own found, that it would There son days, rather than eat the form thing proposed, no could I disquise is, in muy way, so that is would out it. Determines however, to proceed with the coperiments Temeluxex to force upon it a certain portion of This sutstance every day; and accordingly, commenera on the 18th by giving it 30 goaing There a say, wentile it sied. The first how or there

days after its administration the duck seemed to be little affected. In the 21th is began to scoop, hung its wings, represent all food and appeared much recahened. In this way is continued, for two or Three days, with out much change in its appearance, ever to that its shough seemed gradually to fail. On the 21th then was a copious discharge from its mouth, northill and eyes, which continued untile its death. When this sischarge frist appeared, it was a server theid but in a day or two it became thicken, had the appearance of being onived with a samous olors. and smelled exceedingly footid. The shine upon the bile now became shriveled, and along its edges, of a nach hue; its feet also seemed to be affected, for it walked with difficulty, org if its feet were pozen, and upon examination, the ones of the tog and the web between them, were of a black edour, and harder, and dryer, than matural. the the ovening of the 29th is died, and upon

disserting it, the next morning, the whole body sumed to be diseased. The shin was completely sujection with blood, the vessely of which appeared to have given way, and the whole sanface was if a dark colour as if it had been bruised. The sender surface of the liver was of a dark greenish colon and the gale blader much distinded, with a suity looking bile . The lungs, ex ac for a very small part of their up per enas, some comple stely gangoenous in the slomach Touto see very little atteration - the intertines were in a state bordering on mortification - the brain was little affected, with the everption of which, no part of the body, sumed to have escaped the offeels of the Eight. This case, though the such nin be for the dry gangaine was complete, shows that it is capable of promueing that disease, and preves the deadly effects which this substance preduces when it is used as fred for any length of time. The light appears to produce discare,

by gradually destroying the newous energy of the system, and consequently weakening the powus of the enculation so much, that after a while, it ceases to be carried on in the extremelies, and therefore, they first become affected with morlific cation. Besides the opontaneous gang some of the so tunetus, another species of disease, even more formidable than the one described above, has been asserbed to the Engre, by Hoffmann, Lessot 9 some other writing, but with what justice or propriety same to admir of a question. The disease, as described by these writers, a procass to be a fo bile disorder, of a contagious and maligname chair acter, generally accompanied and aharacteryed, by various & pasmodic and convulsion symptony, by which or by a general a pile pay, the paletul was carried of . This disease, prevailed, as an epidemie, in various pouts of Germany, sem ing the 16 and 17th continues and the description given of is, by the professors of the surversity of

Man pring, is referred to as the fire account of the disease. but in This description there is no man-Now made of the Engot, and bad bread, tog a the with other ende in holesome frod were only mon. Timed as the cause of this Epidenic. The statem out of the origin of this our case given by Son = or bus correspondes with their of the mon ping, professing and, is given probably upon then one-- Thority. "I madig mant capour or humanone relicating the brain and newes, he supposes to be the exciting cause of the disease. From the state ments of these authors it is obvious, that the original writers considered a searcity of feed, and that of a bad quality, as the cause of this a pidemie, and not the argot; as has seem stated by late withey; since there is no mention made of this articles by them. Hoffman gives the following description of the squiptons of this a predemic, which was called by the German writing the comousein plague". The disease in its

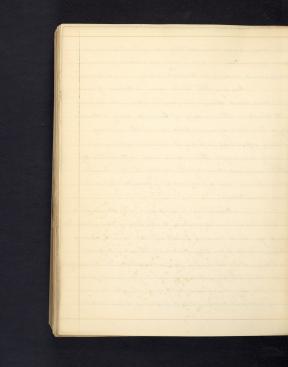


commencement occupies the links and the exhumolis of the hanses and feet in which a souse of for mication is folt. The some instances it communes with sickness and vomiling. Then followed violent spasmodic contractions of the fringers and toes, which at length attacked the knees, shoulders, elbros and even the face, eyes and lips, accompanied by one intolerable pain, and sometimes, by a sense of external coldness, some times of hunning heat. These symptoms retirm at stated porceds and continue for several weeky. By the pain dimeneshed, the patient falls into a state of encounces and topor, often into on alcenation of mind and is affected with quadruely and deafres- the limbs somain stiff and destitute of the proce of melion. The the extreme buy, large vericles pilea with sesum often appear, and sometimes other turnous which pape into a gang renous condition , but by a very stow progreps, by which attimately even



the long have been destroyed. It state of general convalues or a pidopsy recasionally super some father, especially to chiloren's british and forever father, en present to them you great British and been attacked by a lew, madejanin five, and the variety of some affecting, which produced goese man tally am engel them, and were attacked by the medical men of the army to the Secole termetime. In a per what gamends has not been mentioned.

Annung siders are the desires which have been asserted to the use of the spring one only seed are the description, which have been given of them by different devileg- stice is seeing probable, that, the true offeres of the angettee days are to be found only in the day gangoone, and one in the minutes on a present of the minutes and a present of the seems of the seems



It is said that the legal is more hurtful to animaly between new and M. And affirmed, that is lorsey if deletering qualities altogether when it is he fit in the short for a few months. This statement appears to me to be somewheld dente feet for that which I used, from the or personally I make, seemed to have returned at the properties aren'ted to this article, atthough it had been presented the year before.

The evenit of establishing this extension may satistenes as of on article of the materia Medica, is seen to the Materia, then been the best and as a meany of per on thing have been seen to the amble of the material to the and even and except to be amplicated as how the form of it, and tell it was again brought before the publich, by him, who, is a letter to the Merely of New York, and a set to the west, his signising a per the noc

of the legal as a mediane, and its conducted signey in accolorating linguing labour General the first piet pe ble cation, the segment I minutes of one landing have tuned with account though and accountly of its nature and preparties to gother with minutes cases in which it had been weed, many of which are coastly opposite to each other and the cases so ported in which it has been employed, have scarcely been more monening than the signess of ining of its proporties given by the medical own of our country.

some sensisted is to be one of the most extensions prompt vacany of the age, and the most extension and prompt vacany of presidency linguisty to strong a many by which the suffering method might be spared many a pany, and the chief reserved from the danger which is always attendant upon to much eating, in its passage to this sentil of war. They considered to be much surage to this sentil of war. They come and to sente of much might be the course of much much much incorporately.



will prove in the hands of ignican practitions) sechod somed peopara the softy of the mother, and easily section and suffering, and sirroundly racing the his of the chief to the more specay actions of the homomore the sur-swenteble impatures of a selfich practitioner.

From the power which this article conities in accelerating labour it has been called pulois ad partein; but be Horach observed in a letter to It Has -milton, professor of toleties, in the university of Emilingh, and published in his appointed to Thomas practice, that ag it regards the chier, it may with equal truth be accommanded pulois and morten: and futher observes, that, since the interduction of the Engel into the practice of Midwifory, the momber of thile boron children in the orbituary of that city has goeatly siceraso, so much so, that are singing has been sustituted by the medical society of the county of New Guh, and a committee appointed to prepare a



statement upon this surject. Healer titly us in the same paper, that in there easy of long per-tracted had been extended, and the patients stronged sopeneed, he had not the patients stronged sopeneed, he had not the countries, presented the region one in infusion and in the ordinary serve.

In all the eases in which he had administered this me divine, the setung way called in the setung that was called a thing in a love fiftee. I minited after its a demendent which wind one case strictly the chied was achieved and sin every ease, the chied was a live torn, although he observed so conducte evidence coiled presents to the one of the mexical strictly so the same consummentation, that or he states, so the same consummentation, that or he states, so the same consummentation, that the state of so the same appeticions practitiones of the state of some forth, semental that the legal had proved fatal to the chied in almost every instance, in which is had been presented,



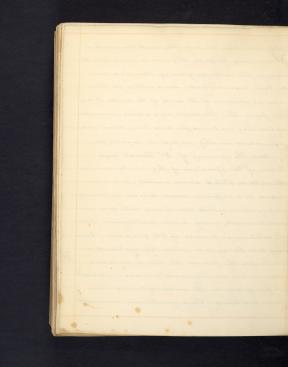
and that it appeared to be injuring to the child as all things, for one every case, in which he had seen it are ministered, the child was this born and in a greater pair of them is was impossible to so tour is to lip again.

In the statement above query it would sum, that the Eight is avidently primitions to the welface and safety of the chied . but I think what is there ascribed to the effects of the Engol, might, with propriety, be traced to some more probable eauth, and I am induced to believe, that this emment and justly cale trated prachitioner, might have attributed to the use of this arthele, what unavoidable delay, or pulaps, the oriennstances mighe have produced. He true my that they were eases of long protracted la bour", and that the patients stringthe had become coperated". Now sender these circumstances, it is well known to every practitioner of any experience, that the child is as often and puhaps often



the low, than in any other emdition, and it is more than per base this wor to have been the ease, in the instances given, if then had been no seget a summitteed. One although there was no windence of the death of the chield, it may not prove that the chied was alion: since of laten has continued, for some time, there is no sign, which is this per per is sinfallithe.

None the opining of 18th Glorach and
Moore, of the operation of this substance upon
the child, as stated above correct to wonda
incur be a sufficient season to cetter us from its
complymous, and its use should be at once airconstanding and its use should be at once airconstanding on privince of the Chapman, bear
the octavior or privince of the Chapman, bear
act and Long, men whose manner stand amonings the first on the list of medical
men in one country, and will are inferior
to proof any in the sould, with are inferior
to proof any in the sould, with and them
most porthough. These gouttemen have used



To in more there the hundred case, and sever have human any injury to result from its employ must, it then he the mother or chied, when the remedy have been judiciously used. We to futte
evidence then emed we ask of the beneficial of the
evidence then emed we ask of the beneficial of the
evidence then emed we ask of the beneficial of the
existence then emed of the simportance of these
gentlemous to solve would detical against its
executed then are two him due ears, in while
to has been used with complete success, to declar
its has been used with complete success, to declar

This mudicine, as a particular, standy survivalled amounted the minerous coliections of articles school count on materia medica, of mand is the maine can be applied with propriety.

The more of administering the Lead construction in pitter in previous, to the comment of to a Leganiz, or si in fusion or decetion, which is the most can man and convenient way of i



giving is. One deaching the powder is briled or infused, in a small parties of water , for a few moments, one third of which ignay to taken every twenty minutes, until its offeres are ina duced. In a form 16 or 15 minutes after Il has been given, the telerns is excited to strong and violent paint, which continue with little or no ditermission or a batement, for a short thin and then entirely coase. I repetition of the dose produces precisely the same offerty, so that, by its administration the practitione when seen he may find is necessary, can almost als ways induce a speedy and violent contraction of this agan, which onables him to manage many eases, that, without it's aid, would be extremely troublesome and somewhat whily ummanagealle. A large dose of the accretion or of

the provider preduces naute and counting , but more of those hatchering effects which are known to be the consequences of its continue have have

ever been human to result from this sale blance, when used as a morns of accelerationing to land.

How the violence of the action which This mudieme in succes, it will always be purdent, in the practitioner, to ascertain, provousty, to its administration, that the I's Timed is pretty well dilated and that the presentation is a natural one, or such that the contractions of the setures will the sufficient to effect the object in view, others - wise he exposes his patient to goest pain, & you hapy to the decadput consequences of a sup. - timed tiling. By this article has orn the digital tendiney to over come the sigidity of the soft pails, we much made such our - ourestances, when its use is thought necessary, serve to thousemedig, which have been found best to answer this purpose. With these foreconting, the experience of thousands prones

to may be used and with the mon perfect safety, in many cases which without is wond arquire the application of the forenty.

The Engli seeing best a capted to easy of sugaring and producted lating from a teny of the uterus, and, in such coase, it has made a proved on such caste modeling, a bridging greatly thenformed of the much a handle mother, one asserming the child from the danger which always thousand to make the such as every thousand to the such as the such as every thousand the tens to such a such as every

to sometimes happens that do some some muney and progressy argularly, sur til the soft party are completely relaced, sur as even sur til the ment hand have given way, when from some son known, a accidental count the paint and dening cose, and the latining sud dening cose, and the latining sus pended for honory. Ander there executed the product of the north and specially to start the latine. I cose of this

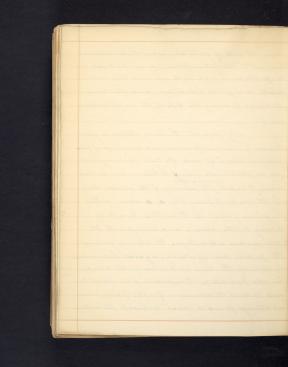
hind is noticed in a communication, on the munical proporting of the Lease formation, by 2 atte of Philadelphia, producted in the 4th volum of the menical occasion. In this case the pany had without cased, at bed time, I aid not seem again our nig the might. In the manning, a secuple of the regre was given, I before the expiration of the regre was given, I before the expiration of his and how, his patient way delivered of a fine son.

It is however said to have been presour bed, with emplier succept, to present delivery in easy complicated with pure peral conventions. In easy of homor haye, it may also to used with smoot a down tage, as in the early strings of pregnancy, when a bottom the early and hay with stood the usual comercies of verestotion and praye vermal and tuterous are of astringents, stepting be when the her a mortage is alarming and the contractions of the titing feether to, in easy of flooding

mean the sea of gestation, when the entereding have a the soil taken place, or are to weath to be offectuary in a pleasy to me that they subtime might be of great adoratory, and offertuies, the many of saving the left of the unfortunace

My preceptor D. Thurry Boteler a gour the more of much of perience and sundues of jud. = general, who has usen the right sie many cases, tota me, that in see cases of la low, when he have season to expert the netwery of the chies, he is in the habit of prescribing a me dose of this medicine just at the thrice that he of peds delivery to take place, and always with The most desided advantage. It not only quaras the patient most effectually, against he morkage, by susuing the tomic continction of the relected, but also facilitates the of pulsion of the placente and predents the recurrence of a fter paint, which are always found so much to harafo the woman

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when the contracting of this or gan an weak. Then is a premion condition of the telesus, which, atthough it is if our occurrence, has The escaped the notice of Mr. Burney and other comment accomeling. It is a topa of this organ after a difficult latour, preventing the contract hong of the files, the worth so maining for hong, or even days, nearly as much distincted, as as the full time of gestation, feeling very hard through the pariety of the abdomen and attended with a pain owen bling erorn p. The This case, the powers of the uting appear to be completely exhausted, and some artificial strinulus is required to ocease or ocnow them again. For this purpose, there is no article which ady so promptly and powerfully as the right, and, in this case (ni my himble opinion) no plan of heatment seems to primis more and would succeed better than a dose of this

An evening dicharge of Lechia is more human to be every to an in profes elector of the course of the course of the course of the through the course of the course of the course attendant upon a sound of prior in this vivery course of mil this vivery want of the make it me then, small such every hard at me there, ecconimally, to make use of this at title?

How the specific action which the Gente fromtum evereing our the situng, it was thingthe when it was just honghe suite problets writer, that is premised much as an orname agone, but subsequent experience has prever, the betterne be expected from it, as a medicine of this stap. Amonon how a poward upon a sum or prevented action of the starting, generally startly induced, to some while, the sement used of how to act good made, started and provented so the same while and provented so the same provented as the same provented as the same provented of this mature. The

offeets one speaking in duced and as quickey pape off, consequently is is illy smiled to they seemed in Ly mouther to they seemed as the which is events in the site is it is so have proved useful in expelling the secretary membrane, which always a common passing this disease and recasions so much sa flexing before it is discharged when the action of the siting or are amassisted.

The teleny which this substance induces, that when given to program animaly, in a very short time, and it has been thingto that is man mine perhaps has been thingto that is man mine perhaps has been used in easy of ellicit programming, where topics about in it desired, in order to him from the world, the coins of an indulgence, which the present state of secrety has for bidden.

atthough this sutstance induces such

is it trailered when the action of the toling

powerful actions in the progrant wherey as to expel its contents before its usual time. of my acquaintance, who had made the ex periment, that, when given to our sursing = - regnated female, it produced no other offert, Thom a slight successings about the region of the situas. In the male, its offerts are secarcely perce ptible. To assectain this fact, on the 6th of betiber & made a thing decortion which I trok, and finding that is had no effect, in 20 minutes Time, I took the other. It produced no extent whatever, except a slight nausea. The mile was not affected in the stightest degoes, no was there any change in the state of the oysteno, that I could becerae.

